Kratik Rathi
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ACADEMIC DETAILS

Examination	University/School	Year	CGPA/Percentage
B.Tech C.S.E. (UG)	Medi-Caps University, Indore	2023	8.63
Higher Secondary School	Thakur Vidya Mandir	2019	65.38%
Secondary School	Ryan International School	2017	9.0

WORK EXPERIENCE

- **Data Analytics Intern** at Mahindra and Mahindra *(January 2023 - April 2023)*
    - Worked on the time-series forecasting model using ARIMAX and SARIMAX to predict future financial years, where results were compared with the regression analysis model
    - Had the responsibility to perform ETL on data, so that they can be further processed for visualization

- **Student Trainee** at Tech Mahindra *(June 2022 - August 2022)*
    - Overview and understanding of CRM, E2E Billing, OSS, and BSS systems
    - Worked data analysis with MS Excel and data visualization with Tableau requirements

- **Data Analytics Consulting Virtual Internship** at KPMG *(September 2021 - October 2021)*
    - Constructed dashboards and enhanced insights by effectively refining Python models. Increased efficiency in targeting customers based on established customer demographics and attributes.

- **Gurugram Police Cyber Security Intern (GPCSSI)** at Haryana Police *(june 2021 - July 2021)*
    - Industrial Training on Email Crimes and Investigations, Social Media Crimes and Securities, Financial Fraud, Dark Web Analysis, Cyber Laws, Cloud Security, and Forensics.

- **Android Development Intern** at UltraTech Cement *(January 2021 - February 2021)*
    - Made a Carpool App using Kotlin for the back-end and XML for the front-end
    - Carpool application would help the employees to be able to carpool to the company quarters with the list of colleagues showing their ETA, the route, and the number of seats available

PROJECTS

- **ARIMAX and SARIMAX time-series forecasting on Air Passengers data** *(April 2023)*
  Tools and Technologies: Jupyter Notebook (Anaconda), Kaggle, Python, and Python libraries
    - Aim: To build a model to predict future air passenger traffic
    - The model was built to check the seasonality and continuity of the data using the ACF and PACF method. It was tested on both ARIMAX and SARIMAX models using Autoarima to check which would be fit for prediction
    - The accuracy of the model was 97% - 98%

- **Traffic Sign Classification System** *(December 2022)*
  Tools and Technologies: Visual Studio, Jupyter Notebook (Anaconda), Python, and Python libraries, CNN, Keras
    - Developed a traffic sign classification system with German Traffic Sign Recognition Benchmark (GTSRB) dataset
    - The accuracy achieved is 95.12%

- **Analysis of factors that affect House Price** *(March 2022)*
  Tools and Technologies: Jupyter Notebook (Anaconda), Kaggle, Python, and Python libraries
    - Did a regression analysis on the data while checking OLS assumptions as well as multicollinearity
    - The regression analysis summary gave us an R-squared value of 0.638, i.e. an accuracy of 63.8 percent

RESEARCH PAPERS

- **Analysis of Indian Weather Data Sets**
  Conference: National Conference on Scientific & Environmental Innovation and Implementation of Sustainable Development Goals
    - In this research paper, to achieve our goal of predicting the weather, we analyzed data from numerous places, read multiple publications for reference and used appropriate data analysis algorithms

SKILL SET / ABILITIES

- **Programming Languages:** Python, C++, R (basic), SQL
- **Application Software:** MS Office, Anaconda
- **Tools and Technologies:** Android Studio, Canva, WordPress, Tableau, Jupyter Notebook (Anaconda), Visual Studio
- **Technical Skills:** Data Analysis, Data Visualization, Data Transformation

POSITIONS OF RESPONSIBILITIES

- **Vice-President Student Team** (MIIC - Medi-Caps Innovation and Incubation Center)   *(August 2021 - December 2022)*
    - Overseeing the day-to-day operation of the Incubation Centre and the specific initiatives of incubation.
    - Designing and managing Incubation and Acceleration programs

- **Start-Up Coordinator** (MIIC - Medi-Caps Innovation and Incubation Center)   *(August 2021 - December 2022)*
    - Provide continued strategic guidance to entrepreneurs in business modeling, sales, marketing, financing, fundraising, overall strategy, operations, etc. Also keeping updates on requirements and functioning of startups

- **Head of Research Department** (MIIC)   *(January 2021 - April 2021)*
- **Head of Events** (MIIC)   *(September 2020 - January 2021)*

EXTRACURRICULAR

- Planned and executed **virtual-tech-fest Aarambh-2020** as a team lead.
- Gave a webinar on **"Why Innovation is Important"** in Medi-Caps University as **Innovation Ambassador** under IIC (Institution's Innovation Council)

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